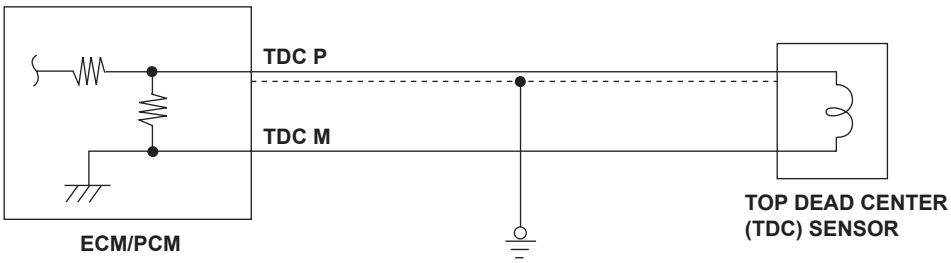
DTC P1361: Top Dead Center (TDC) Sensor Intermittent Interruption



P1361-9601

General Description

The top dead center (TDC) sensor consists of a rotor and a pick-up coil that detects rotor position. When the rotor turns after starting the engine, the changes of magnetic flux in the pick-up coil are converted into pulsing signals to the engine control module (ECM)/powertrain control module (PCM). The TDC sensor detects the top dead center of each cylinder for fuel injection.
If TDC sensor pulsing signals are detected an abnormal number of times due to noise, a malfunction is detected and a DTC is stored.

Monitor Execution, Sequence, Duration, DTC Type

Execution	Continuous
Sequence	None
Duration	—
DTC Type	One drive cycle, MIL ON

Enable Conditions

Condition	Minimum	Maximum
Engine speed	480 rpm	—
No active DTCs	CKP, TDC	

Malfunction Threshold

More or less than six CKP signals are detected for each TDC signal 30 times.

Diagnosis Details

Conditions for illuminating the MIL
When a malfunction is detected, the MIL comes on and the DTC and the freeze frame data are stored in the ECM/PCM memory.

Conditions for clearing the MIL
The MIL will be cleared if the malfunction does not recur during three consecutive trips in which the diagnostic runs. The MIL, the DTC, and the freeze frame data can be cleared by using the scan tool Clear command or by disconnecting the battery.